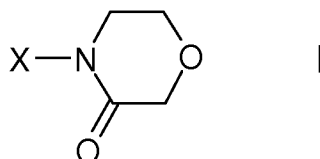


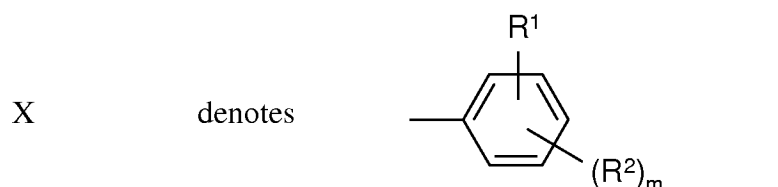
This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A process ~~Process~~ for the preparation of a compound ~~compounds of the~~ formula I



in which



- R^1 denotes NO_2 , CN , COOR^3 , $\text{CON}(\text{R}^3)_2$, COR^3 , SO_2R^4 , $\text{SO}_2\text{N}(\text{R}^3)_2$, CF_3 , F or Cl ,
- R^2 denotes H , Hal , A , OR^3 , $\text{N}(\text{R}^3)_2$, NO_2 , CN , COOR^3 , $\text{CON}(\text{R}^3)_2$, NR^3COA , $\text{NR}^3\text{CON}(\text{R}^3)_2$, NR^3COOR^3 , $\text{NR}^3\text{SO}_2\text{A}$, $-\text{[C(R}^5)_2\text{]}_n\text{-Ar}$, $-\text{[C(R}^5)_2\text{]}_n\text{-Het}$, $-\text{[C(R}^5)_2\text{]}_n\text{-cycloalkyl}$, COR^3 , $\text{SO}_2\text{N}(\text{R}^3)_2$ or SO_2R^4 ,
- R^3 denotes H , A , $-\text{[C(R}^5)_2\text{]}_n\text{-Ar}$ or $-\text{[C(R}^5)_2\text{]}_n\text{-Het}$,
- R^4 denotes A , $-\text{[C(R}^5)_2\text{]}_n\text{-Ar}$ or $-\text{[C(R}^5)_2\text{]}_n\text{-Het}$,
- R^5 denotes H or A' ,
- Ar denotes phenyl which is unsubstituted or mono-, di- or trisubstituted by Hal , A , OR^5 , $\text{N}(\text{R}^5)_2$, NO_2 , CN , COOR^5 , $\text{CON}(\text{R}^5)_2$, NR^5COA , $\text{NR}^5\text{SO}_2\text{A}$, COR^5 , $\text{SO}_2\text{N}(\text{R}^5)_2$ or $\text{S(O)}_n\text{A}$,
- Het denotes a mono- or bicyclic saturated, unsaturated or aromatic heterocycle having 1 to 4 N , O and/or S atoms which is unsubstituted or mono- or disubstituted by Hal , A , OR^5 , $\text{N}(\text{R}^5)_2$, NO_2 , CN ,

COOR^5 , $\text{CON(R}^5)_2$, NR^5COA , $\text{NR}^5\text{SO}_2\text{A}$, COR^5 , $\text{SO}_2\text{N(R}^5)_2$,
 $\text{S(O)}_n\text{A}$ and/or carbonyl oxygen ($=\text{O}$),

A' denotes unbranched or branched alkyl having 1-6 C atoms,

A denotes unbranched, branched or cyclic alkyl having 1-12 C atoms, in which one or two CH_2 groups may be replaced by O or S atoms and/or by $-\text{CH}=\text{CH}-$ groups and/or in addition 1-7 H atoms may be replaced by F,

Hal denotes F, Cl, Br or I,

n denotes 0, 1 or 2,

m denotes 0, 1, 2, 3 or 4,

and salts thereof, characterised in that

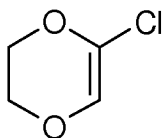
a) a compound of the formula II which has a pK_a value ≤ 3



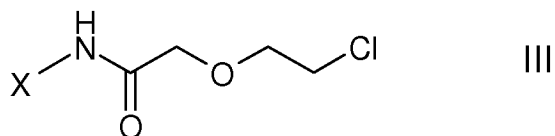
in which

X has the meaning indicated above,

is reacted with 5-chloro-2,3-dihydro-1,4-dioxin



to give a compound of the formula III



in which

X has the meaning indicated above,

b) then a compound of the formula III is cyclised to give a compound of the formula I,

and

c) the latter is optionally converted into its salt
by converting a base or acid of the formula I into one of its salts.

2. (Currently Amended) A process ~~Process~~ according to Claim 1 for the preparation of a compound ~~compounds~~ of the formula I

in which

R^1 denotes NO_2 , CN, $COOR^3$, COR^3 or Cl,

R^2 denotes H, Hal or A,

and salts thereof.

3. (Currently Amended) A process ~~Process~~ according to Claim 1 for the preparation of a compound ~~compounds~~ of the formula I

in which

R^1 denotes NO_2 , CN, $COOR^3$, $CON(R^3)_2$, COR^3 , SO_2R^4 , $SO_2N(R^3)_2$,
 CF_3 , F or Cl,

R^2 denotes H, Hal or A,

R^3 denotes H, A, $-[C(R^5)_2]_n-Ar$ or $-[C(R^5)_2]_n-Het$,

and salts thereof.

4. (Currently Amended) A process ~~Process~~ according to Claim 1 for the preparation of a compound ~~compounds~~ of the formula I

in which

Ar denotes phenyl,
and salts thereof.

5. (Currently Amended) A process ~~Process~~ according to Claim 1 for the preparation of a compound ~~compounds~~ of the formula I

in which

R^4 denotes A,
and salts thereof.

6. (Currently Amended) A process ~~Process~~ according to Claim 1 for the preparation of a compound ~~compounds~~ of the formula I

in which

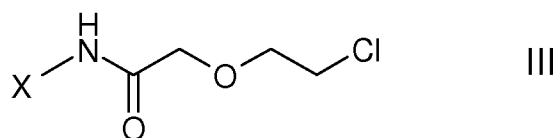
R^1 denotes NO_2 , CN, COOR^3 , $\text{CON}(\text{R}^3)_2$, COR^3 , CF_3 , F or Cl,
 R^2 denotes H, Hal or A',
 R^3 denotes H, A' or $-\text{[C(R}^5)_2\text{]}_n\text{-Ar}$,
Ar denotes phenyl,
 R^5 denotes H or A',
A' denotes unbranched or branched alkyl having 1-6 C atoms,
Hal denotes F, Cl, Br or I,
n denotes 0, 1 or 2,
and salts thereof.

7. (Cancelled)

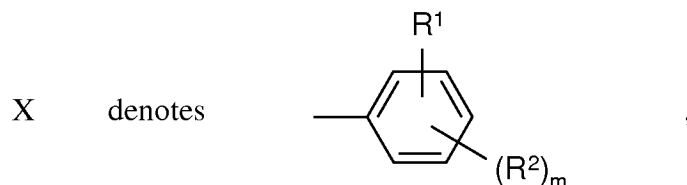
8. (Currently Amended) A process ~~Process~~ according to claim 1 in which process steps a) and b) are carried out as a one-pot reaction.

9. (Currently Amended) A process ~~Process~~ according to claim 1 in which process step a) is carried out at a temperature between 0 and 150°C.

10. (Currently Amended) A process ~~Process~~ according to Claim 9, in which process step a) is carried out at a temperature between 70 and 90°C.
11. (Currently Amended) A process ~~Process~~ according to claim 1 in which the cyclization ~~eyclisation~~ is carried out in an inert solvent or solvent mixture, in the presence of an alkali or alkaline earth metal hydroxide, carbonate or bicarbonate.
12. (Currently Amended) A process ~~Process~~ according to claim 1 in which the cyclization ~~eyclisation~~ is carried out in the presence of caesium carbonate or potassium carbonate.
13. (Currently Amended) A process ~~Process~~ according to claim 1 in which the process is carried out as a one-pot reaction in acetonitrile.
14. (Currently Amended) A process ~~Process~~ according to claim 1 for the preparation of ~~compounds selected from the group~~
4-(4-nitrophenyl)-3-oxomorpholine,
4-(3-nitrophenyl)-3-oxomorpholine,
4-(2-nitrophenyl)-3-oxomorpholine,
2-methyl-4-(4-nitrophenyl)-3-oxomorpholine,
4-(4-methoxycarbonylphenyl)-3-oxomorpholine,
4-(4-benzoylphenyl)-3-oxomorpholine,
and salts or a salt thereof.
15. (Withdrawn-currently amended) An intermediate compound ~~Intermediate compounds~~ of the formula III



in which



- R^1 denotes NO_2 or CN ,
- R^2 denotes H , Hal , A , OR^3 , $\text{N}(\text{R}^3)_2$, NO_2 , CN , COOR^3 , $\text{CON}(\text{R}^3)_2$, NR^3COA , $\text{NR}^3\text{CON}(\text{R}^3)_2$, NR^3COOR^3 , $\text{NR}^3\text{SO}_2\text{A}$, $-\text{[C}(\text{R}^5)_2\text{]}_n\text{-Ar}$, $-\text{[C}(\text{R}^5)_2\text{]}_n\text{-Het}$, $-\text{[C}(\text{R}^5)_2\text{]}_n\text{-cycloalkyl}$, COR^3 , $\text{SO}_2\text{N}(\text{R}^3)_2$ or SO_2R^4 ,
- R^3 denotes H , A , $-\text{[C}(\text{R}^5)_2\text{]}_n\text{-Ar}$ or $-\text{[C}(\text{R}^5)_2\text{]}_n\text{-Het}$,
- R^4 denotes A , $-\text{[C}(\text{R}^5)_2\text{]}_n\text{-Ar}$ or $-\text{[C}(\text{R}^5)_2\text{]}_n\text{-Het}$,
- R^5 denotes H or A' ,
- Ar denotes phenyl which is unsubstituted or mono-, di- or trisubstituted by Hal , A , OR^5 , $\text{N}(\text{R}^5)_2$, NO_2 , CN , COOR^5 , $\text{CON}(\text{R}^5)_2$, NR^5COA , $\text{NR}^5\text{SO}_2\text{A}$, COR^5 , $\text{SO}_2\text{N}(\text{R}^5)_2$ or $\text{S}(\text{O})_n\text{A}$,
- Het denotes a mono- or bicyclic saturated, unsaturated or aromatic heterocycle having 1 to 4 N, O and/or S atoms which is unsubstituted or mono- or disubstituted by Hal , A , OR^5 , $\text{N}(\text{R}^5)_2$, NO_2 , CN , COOR^5 , $\text{CON}(\text{R}^5)_2$, NR^5COA , $\text{NR}^5\text{SO}_2\text{A}$, COR^5 , $\text{SO}_2\text{N}(\text{R}^5)_2$, $\text{S}(\text{O})_n\text{A}$ and/or carbonyl oxygen ($=\text{O}$),
- A' denotes unbranched or branched alkyl having 1-6 C atoms,
- A denotes unbranched, branched or cyclic alkyl having 1-12 C atoms, in which one or two CH_2 groups may be replaced by O or S atoms and/or by $-\text{CH}=\text{CH}-$ groups and/or in addition 1-7 H atoms may be replaced by F,
- Hal denotes F, Cl, Br or I,

n denotes 0, 1 or 2,
m denotes 0, 1, 2, 3 or 4,
and salts thereof.

16. (Withdrawn-currently amended) An intermediate compound ~~Intermediate compounds~~ according to Claim 15 in which

R¹ denotes NO₂ or CN,

R² denotes H, Hal or A,

and salts thereof.

17. (Withdrawn-currently amended) An intermediate compound ~~Intermediate compounds~~ according to Claim 15, in which

R¹ denotes NO₂ or CN,

R² denotes H, Hal or A,

R³ denotes H, A, -[C(R⁵)₂]_n-Ar or -[C(R⁵)₂]_n-Het,

and salts thereof.

18. (Withdrawn-currently amended) An intermediate compound ~~Intermediate compounds~~ according to Claim 15 in which

Ar denotes phenyl,

and salts thereof.

19. (Withdrawn-currently amended) An intermediate compound ~~Intermediate compounds~~ according to claim 15 in which

R⁴ denotes A,

and salts thereof.

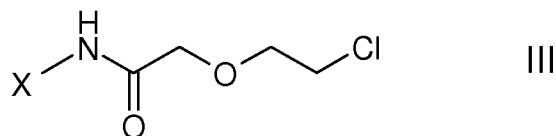
20. (Withdrawn-currently amended) An intermediate compound ~~Intermediate compounds~~ according to claim 15 in which

R^1 denotes NO_2 or CN ,
 R^2 denotes H, Hal or A' ,
 R^3 denotes H, A' or $-[C(R^5)_2]_n-Ar$,
 Ar denotes phenyl,
 R^5 denotes H or A' ,
 A' denotes unbranched or branched alkyl having 1-6 C atoms,
 Hal denotes F, Cl, Br or I,
 n denotes 0, 1 or 2,
 m denotes 0, 1 or 2,
 and salts thereof.

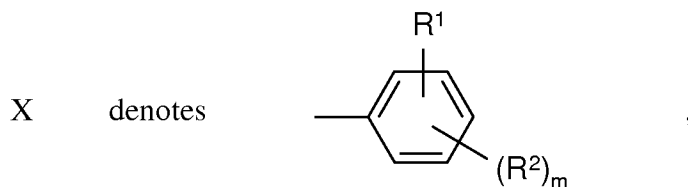
21. (Withdrawn-currently amended) An intermediate compound ~~Intermediate compounds~~ according to Claim 20 in which

R^1 denotes NO_2 ,
 R^2 denotes H, Hal or A' ,
 R^3 denotes H, A' or $-[C(R^5)_2]_n-Ar$,
 Ar denotes phenyl,
 R^5 denotes H or A' ,
 A' denotes unbranched or branched alkyl having 1-6 C atoms,
 Hal denotes F, Cl, Br or I,
 n denotes 0, 1 or 2,
 m denotes 0, 1 or 2,
 and salts thereof.

22. (Withdrawn-currently amended) A process ~~Process~~ for the preparation of an intermediate compound ~~intermediate compounds~~ of the formula III



in which



R^1 denotes NO_2 , CN , COOR^3 , $\text{CON}(\text{R}^3)_2$, COR^3 , SO_2R^4 , $\text{SO}_2\text{N}(\text{R}^3)_2$, CF_3 , F or Cl ,

R^2 denotes H , Hal , A , OR^3 , $\text{N}(\text{R}^3)_2$, NO_2 , CN , COOR^3 , $\text{CON}(\text{R}^3)_2$, NR^3COA , $\text{NR}^3\text{CON}(\text{R}^3)_2$, NR^3COOR^3 , $\text{NR}^3\text{SO}_2\text{A}$, $-\text{[C}(\text{R}^5)_2\text{]}_n\text{-Ar}$, $-\text{[C}(\text{R}^5)_2\text{]}_n\text{-Het}$, $-\text{[C}(\text{R}^5)_2\text{]}_n\text{-cycloalkyl}$, COR^3 , $\text{SO}_2\text{N}(\text{R}^3)_2$ or SO_2R^4 ,

R^3 denotes H , A , $-\text{[C}(\text{R}^5)_2\text{]}_n\text{-Ar}$ or $-\text{[C}(\text{R}^5)_2\text{]}_n\text{-Het}$,

R^4 denotes A , $-\text{[C}(\text{R}^5)_2\text{]}_n\text{-Ar}$ or $-\text{[C}(\text{R}^5)_2\text{]}_n\text{-Het}$,

R^5 denotes H or A' ,

Ar denotes phenyl which is unsubstituted or mono-, di- or trisubstituted by Hal , A , OR^5 , $\text{N}(\text{R}^5)_2$, NO_2 , CN , COOR^5 , $\text{CON}(\text{R}^5)_2$, NR^5COA , $\text{NR}^5\text{SO}_2\text{A}$, COR^5 , $\text{SO}_2\text{N}(\text{R}^5)_2$ or $\text{S}(\text{O})_n\text{A}$,

Het denotes a mono- or bicyclic saturated, unsaturated or aromatic heterocycle having 1 to 4 N , O and/or S atoms which is unsubstituted or mono- or disubstituted by Hal , A , OR^5 , $\text{N}(\text{R}^5)_2$, NO_2 , CN , COOR^5 , $\text{CON}(\text{R}^5)_2$, NR^5COA , $\text{NR}^5\text{SO}_2\text{A}$, COR^5 , $\text{SO}_2\text{N}(\text{R}^5)_2$, $\text{S}(\text{O})_n\text{A}$ and/or carbonyl oxygen ($=\text{O}$),

A' denotes unbranched or branched alkyl having 1-6 C atoms,

A denotes unbranched, branched or cyclic alkyl having 1-12 C atoms, in which one or two CH_2 groups may be replaced by O or S atoms and/or by $-\text{CH}=\text{CH}-$ groups and/or in addition 1-7 H atoms may be replaced by F ,

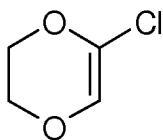
Hal denotes F, Cl, Br or I,
 n denotes 0, 1 or 2,
 m denotes 0, 1, 2, 3 or 4,
 and salts thereof, characterised in that
 a) a compound of the formula II



in which

X has the meaning indicated above,

is reacted with 5-chloro-2,3-dihydro-1,4-dioxin



and

the compound of the formula III is optionally converted into its salt.

23. (Withdrawn-currently amended) A process ~~Process~~ according to Claim 22 for the preparation of an intermediate compound ~~compounds~~ of the formula III in which

R^1 denotes NO_2 or CN ,

R^2 denotes H, Hal, A, OR^3 , $\text{N(R}^3)_2$, NO_2 , CN , COOR^3 , $\text{CON(R}^3)_2$, NR^3COA , $\text{NR}^3\text{CON(R}^3)_2$, NR^3COOR^3 , $\text{NR}^3\text{SO}_2\text{A}$, $-\text{[C(R}^5)_2]_n\text{-Ar}$, $-\text{[C(R}^5)_2]_n\text{-Het}$, $-\text{[C(R}^5)_2]_n\text{-cycloalkyl}$, COR^3 , $\text{SO}_2\text{N(R}^3)_2$ or SO_2R^4 ,

R^3 denotes H, A, $-\text{[C(R}^5)_2]_n\text{-Ar}$ or $-\text{[C(R}^5)_2]_n\text{-Het}$,

R^4 denotes A, $-\text{[C(R}^5)_2]_n\text{-Ar}$ or $-\text{[C(R}^5)_2]_n\text{-Het}$,

R^5 denotes H or A',

- Ar denotes phenyl which is unsubstituted or mono-, di- or trisubstituted by Hal, A, OR⁵, N(R⁵)₂, NO₂, CN, COOR⁵, CON(R⁵)₂, NR⁵COA, NR⁵SO₂A, COR⁵, SO₂N(R⁵)₂ or S(O)_nA,
- Het denotes a mono- or bicyclic saturated, unsaturated or aromatic heterocycle having 1 to 4 N, O and/or S atoms which is unsubstituted or mono- or disubstituted by Hal, A, OR⁵, N(R⁵)₂, NO₂, CN, COOR⁵, CON(R⁵)₂, NR⁵COA, NR⁵SO₂A, COR⁵, SO₂N(R⁵)₂, S(O)_nA and/or carbonyl oxygen (=O),
- A' denotes unbranched or branched alkyl having 1-6 C atoms,
- A denotes unbranched, branched or cyclic ~~allyl~~ alkyl having 1-12 C atoms, in which one or two CH₂ groups may be replaced by O or S atoms and/or by -CH=CH- groups and/or in addition 1-7 H atoms may be replaced by F,
- Hal denotes F, Cl, Br or I,
- n denotes 0, 1 or 2,
- m denotes 0, 1, 2, 3 or 4.

24. (Withdrawn-currently amended) A process ~~Process~~ according to Claim 23 for the preparation of an intermediate compound ~~compounds~~ of the formula III in which

- R¹ denotes NO₂ or CN,
R² denotes H, Hal or A.

25. (Withdrawn-currently amended) A process ~~Process~~ according to Claim 23 for the preparation of an intermediate compound ~~compounds~~ of the formula III in which

- R¹ denotes NO₂ or CN,
R² denotes H, Hal or A,
R³ denotes H, A, -[C(R⁵)₂]_n-Ar or -[C(R⁵)₂]_n-Het.

26. (Withdrawn-currently amended) A process ~~Process~~ according to Claim 23 for the preparation of an intermediate compound ~~compounds~~ of the formula III in which

Ar denotes phenyl.

27. (Withdrawn-currently amended) A process ~~Process~~ according to Claim 23 for the preparation of an intermediate compound ~~compounds~~ of the formula III in which

R⁴ denotes A.

28. (Withdrawn-currently amended) A process ~~Process~~ according to Claim 23 for the preparation of an intermediate compound ~~compounds~~ of the formula III in which

R¹ denotes NO₂ or CN,

R² denotes H, Hal or A',

R³ denotes H, A' or -[C(R⁵)₂]_n-Ar,

Ar denotes phenyl,

R⁵ denotes H or A',

A' denotes unbranched or branched alkyl having 1-6 C atoms,

Hal denotes F, Cl, Br or I,

n denotes 0, 1 or 2,

m denotes 0, 1 or 2.